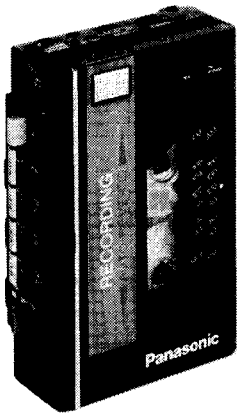
NO. GAD8704057A2

Service Manual

Radio Cassette

Stereo Radio Cassette Recorder AS16 RX-SR27

(Black)



This is the Service Manual for the following areas.

- [Z] ··· For all European areas except [ZE], [ZF], [ZG] and [ZI] areas.
- [ZE] ··· For United Kingdom.
- [ZF] ··· For France.
- [ZG] ··· For F.R. Germany.
- [ZI] ··· For Italy.

- Please use this manual together with the service manual for model No. RX-SR27 order No. GAD8702016C3.
- This unit does not have external speakers, so disregard all information regarding external speakers when referring to the original service manual.

CHANGE

■ SPECIFICATIONS

	RX-SR27 [X] (Original)		RX-SR27 [Z] [ZE] [ZF] [ZG] [ZI]
Power Requirement:	AC; 110~127/220~240V, 50/60Hz with optional AC adaptor RD-9443H		**Power Requirement: AC; 220V, 50Hz with optional AC adaptor RD-9443HS (For U.K., 240V, 50Hz with optional AC adaptor RD-9443HE)**
Radio Frequency Range:	FM; 88~108MHz AM; 530~1605kHz	➡	**FM; 87.5~108MHz AM; 520~1,610kHz**
Intermediate Frequency:	FM; 10.7MHz AM; 455kHz		**FM; 10.7MHz AM; 455kHz [Z] [ZF] [ZG] [ZI] 470kHz [ZE]**

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

■ PARTS COMPARISON TABLE

NOTE: [Z]...For all European areas except [ZE], [ZF], [ZG] and [ZI]. [ZE]...For United Kingdom. [ZF]...For France. [ZG]...For F.R. Germany. [ZI]...For Italy.

Ref. No.	Description	Parts Number		Remarks
		RX-SR27 [X] (Original)	**RX-SR27 [Z] [ZE] [ZF] [ZG] [ZI]**	
L1	Coil, FM OSC	RL04Y48	**RL04N245-0**	**[ZG] [ZI] only**
T2	I.F. Transformer, AM	RLI4A37	**RLI2A39-M**	**[ZE] only**
CF2	Ceramic Filter (470kHz)	RVFPFA455A	**RVFPFA470A**	**[ZE] only**
C4	Capacitor (24pF)	RCUV1H180KC	**RCUV1H240JRH**	**[ZG] [ZI] only**
C5	Capacitor (15pF)	RCUV1H101K	**RCUV1H150KC**	**[ZG] [ZI] only**
C6	Capacitor (20pF)	RCUV1H160J	**RCUV1H200K**	**[ZG] [ZI] only**
C12	Capacitor (18pF)	RCUV1H060D	**RCUV1H180D**	**[ZG] [ZI] only**
K10	Cassette Lid Ass'y	RYPXSR27X	**RYPXSR27Z**	**[Z] [ZE] [ZF] only**
			RYPXSR27ZG	**[ZG] [ZI] only**
K13	Front Cabinet Ass'y	RYMXSR27X	**RYMXSR27Z**	
K14	Rear Cabinet Ass'y	RYFXSR27X	**RYFXSR27Z**	**[Z] [ZF] only**
			RYFXSR27ZE	**[ZE] only**
			RYFXSR27ZG	**[ZG] [ZI] only**
K14-2	Name Plate	RGTK62ZA-0	**RGTK57ZA-0**	**[Z] [ZF] only**
			RGTK58ZA-0	**[ZE] only**
			RGTK56ZA-0	**[ZG] [ZI] only**
P1	Gift Box	RPKK1083ZA	**RPKK1085ZA**	
P2	Cushion	RPNK3005YA	**RPNK3034ZA**	
P3	Pad	RPEK104Z	**RPEK131ZA**	
P6	Cushion	QPSK1142	——	**Deleted**
P7	Protection Cover	XZB14X20A03	——	**Deleted**
A3	Operating Instructions	RQXK4065ZA	**RQXK4073ZA**	

MEASUREMENTS AND ADJUSTMENTS

■ AM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	AM-IF ALIGNMENT						
(1)	AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. at 400Hz	Point of non-interference. (on/ about 600kHz)	Headphones jack	T2 (AM IFT)	Adjust for maximum output.
	AM-RF ALIGNMENT						
(2)	AM	〃	511kHz	Tuning capacitor fully closed.	〃	L4 (AM OSC Coil)	Adjust for maximum output.
(3)	AM	〃	1,670kHz	Tuning capacitor fully open.	〃	CT4 (AM OSC Trimmer)	〃

RX-SR27 [X] (Original)

	AM-IF ALIGNMENT						
(1)	AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	**455kHz ([ZE]...470kHz) 30% Mod. at 400Hz**	Point of non-interference. (on/ about 600kHz)	Headphones jack	T2 (AM IFT)	Adjust for maximum output.
	AM-RF ALIGNMENT						
(2)	AM	〃	**511kHz ([ZG] [ZI]...514kHz)**	Tuning capacitor fully closed.	〃	L4 (AM OSC Coil)	Adjust for maximum output.
(3)	AM	〃	**1,670kHz ([ZG] [ZI]...1,640kHz)**	Tuning capacitor fully open.	〃	CT4 (AM OSC Trimmer)	〃

RX-SR27 [Z] [ZE] [ZF] [ZG] [ZI]

D

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	FM-RF ALIGNMENT						
(3)	FM	Connect to test point ❶ through FM dummy antenna. Negative side to test point ❷.	86.2MHz	Variable capacitor fully closed.	Headphones jack	L1 (FM OSC Coil)	(*2) Adjust for maximum output.
(4)	FM		109.2MHz	Variable capacitor fully open.	〃	CT1 (FM OSC Trimmer)	〃
(*2) Three output responses will be present; proper tuning is the center frequency.							

RX-SR27 [X] (Original)

	FM-RF ALIGNMENT						
(3)	FM	Connect to test point ❶ through FM dummy antenna. Negative side to test point ❷.	**86.2MHz ([ZG] [ZI]... 87.38MHz)**	Variable capacitor fully closed.	Headphones jack	L1 (FM OSC Coil)	(*2) Adjust for maximum output.
(4)	FM		**109.2MHz ([ZG] [ZI]... 108.3MHz)**	Variable capacitor fully open.	〃	CT1 (FM OSC Trimmer)	〃
(*2) Three output responses will be present; proper tuning is the center frequency.							

RX-SR27 [Z] [ZE] [ZF] [ZG] [ZI]

■ TAPE ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Tape speed	QZZCWAT (3kHz)	Headphones jack	3020±10Hz	VR4	Playback mode

RX-SR27 [X] (Original)

Tape speed	QZZCWAT (3kHz)	Headphones jack	**3010±10Hz**	VR4	Playback mode

RX-SR27 [Z] [ZE] [ZF] [ZG] [ZI]

D

ALIGNMENT POINT

* Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

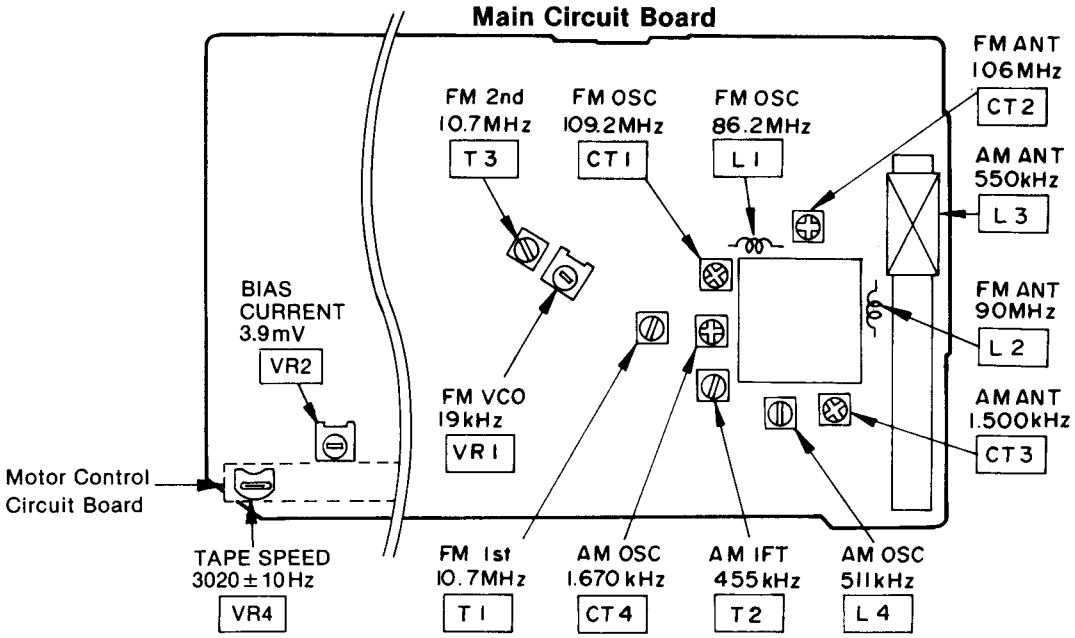


Fig. 1

RX-SR27 X (Original)

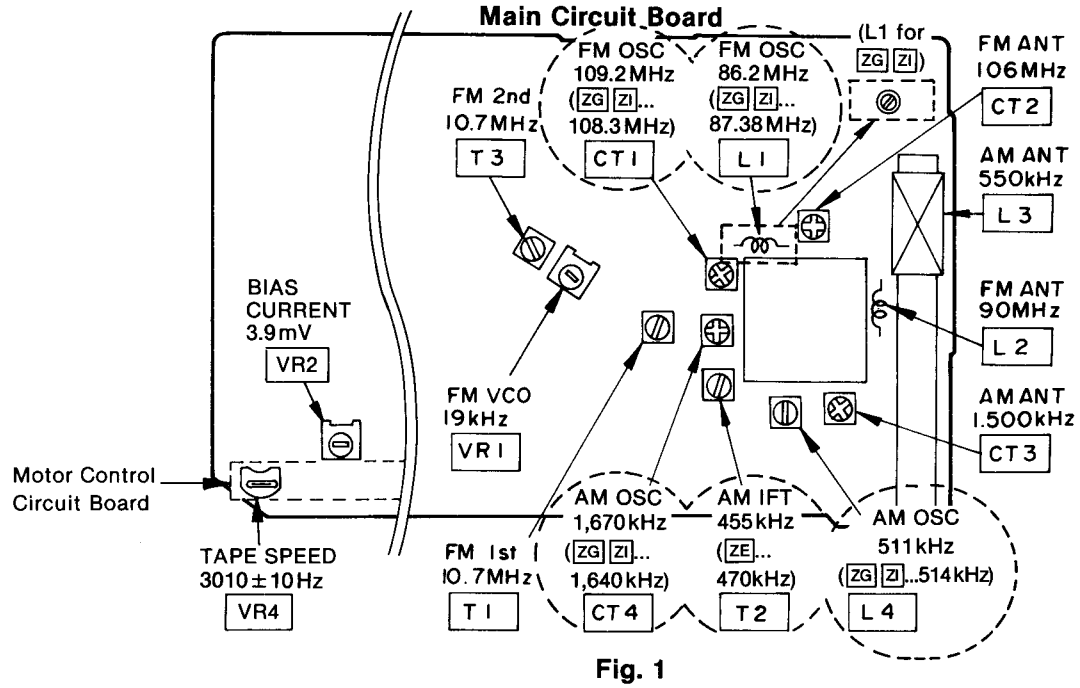


Fig. 1

RX-SR27 Z ZE ZF ZG ZI

KTB
H.M/I.M
Z ZE ZF ZG ZI
Printed in Japan Ⓗ

ORDER NO. GAD8702016C3

Service Manual

Radio Cassette

Stereo Radio Cassette Recorder

RX-SR27

(Black)

This is the Service Manual for the following areas.

[X] ··· For Asia, Latin America, Middle East and Africa areas.

[L] ··· For Australia.

[XC] ··· For Saudi Arabia.

RX-SR25 MECHANISM SERIES

■ SPECIFICATIONS

• Main Unit Section

Power Requirement:	Battery; 3V (Two UM-3, "AA" size dry batteries) AC; 110~127/220~240V, 50/60Hz with optional AC adaptor RD-9443H (For Australia, use optional AC adaptor RD-9443HA)
Power Output:	30mW (15mW×2)... RMS (max.)
Input:	MIC; sensitivity 0.25mV/applicable microphone impedance 200~600Ω, φ3.5 DC IN; 3V (Mini type)
Output:	[X][XC]....HEADPHONES; 16Ω, φ3.5 [L].....HEADPHONES; 32Ω, φ3.5
Dimensions:	84.5mm(W)×129.5mm(H)×37mm(D)
Weight:	290g without batteries
Radio Frequency Range:	FM; 88~108MHz AM; 530~1605kHz
Intermediate Frequency:	FM; 10.7MHz AM; 455kHz
Sensitivity:	FM; 2.5μV/0.5mW output (−3dB Limit sens) AM; 252μV/m/0.5mW output
Frequency Response:	100~8,000Hz (with normal tape)
Recording System:	AC bias, MAGNET erase
Tape Speed:	4.8cm/s
Track System:	4-track 2 channel stereo recording and playback

• External Speaker Section

Power Requirement:	Battery; 3V (Two UM-3, "AA" size dry batteries)
Power Output:	800mW (400mW×2)... RMS (max.)
Speaker:	5cm Speaker (impedance 8Ω)
Input Jack:	Impedance 32Ω, φ3.5
Dimensions:	70mm(W)×82mm(H)×55mm(D)
Weight:	230g without batteries

Design and specifications are subject to change without notice.

National

Matsushita Electric Trading Co., Ltd.
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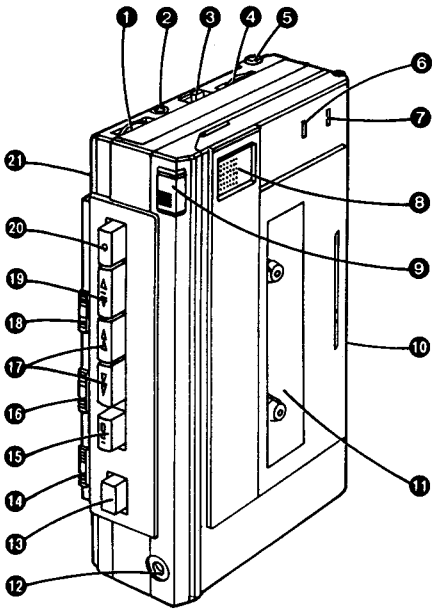
LOCATION OF CONTROLS AND COMPONENTS

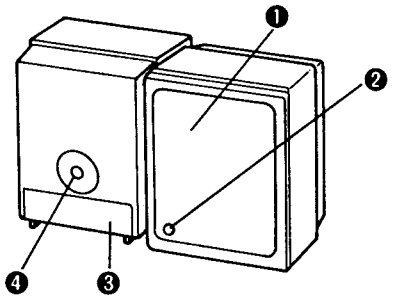
■ MAIN UNIT SECTION



MAIN UNIT SECTION

❶ Volume Control (VOLUME)
❷ Stereo Microphone Jack (ST MIC) [0.25mV/200~600Ω (φ3.5)]
❸ Band Selector (BAND)
❹ Tuning Control (TUNING)
❺ Headphones Jack ( ) [16Ω (32Ω: For Australia.), φ3.5]
❻ Power/Battery Check Indicator (POWER/BATT)
❼ FM Stereo Indicator (FM STEREO)
❽ Built-in Microphone (MIC)
❾ SLE Switch (SLE)
❿ Battery Compartment [Back]
⓫ Cassette Compartment
⓬ DC Input Jack (DC IN 3 V ⊖-◑-⊕) [MINI TYPE]
⓭ Direction Button (DIRECTION)
⓮ Pause Switch (PAUSE)
⓯ Stop/Eject Button (■/▲ STOP/EJECT)
⓰ Function Selector (SELECTOR)
⓱ Fast/Cue Buttons (▲•▼ FAST/CUE)
⓲ Tape Selector/Beat Proof Switch (TAPE/B.P)
⓳ Playback Button (▲▼PLAY)
⓴ Record Button (● REC)
㉑ Clip Receptacle [Back]

■ SPEAKER SECTION



SPEAKER SECTION

❶ Speaker (5cm, 8Ω)
❷ Power/Battery Check Indicator (POWER/BATT)
When a signal is input, the power is turned on, and the indicator lights.
❸ Battery Compartment
❹ Input Jack (32Ω, φ3.5)

DISASSEMBLY INSTRUCTIONS

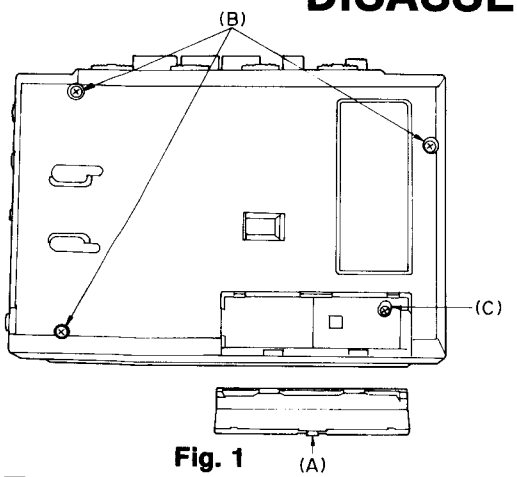


Fig. 1

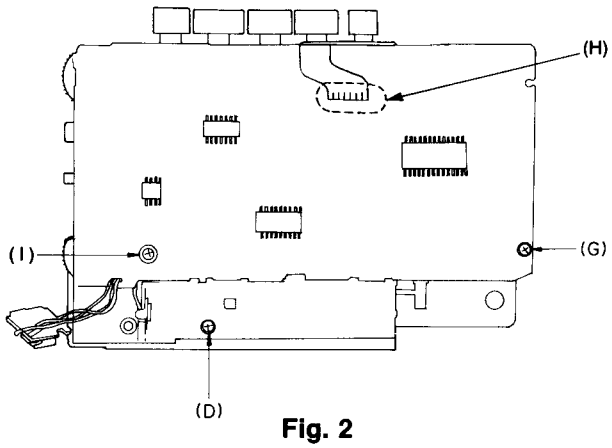


Fig. 2

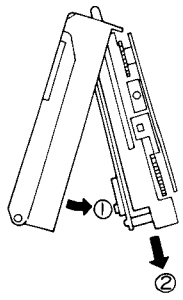


Fig. 3

■ Remove the Rear Cabinet

1. Remove the battery cover (A). (Fig. 1)
2. Remove the screw (B) (2×25)mm×3. (Fig. 1)
3. Remove the screw (C) (2×6)mm×1. (Fig. 1)

■ Remove the Mechanism & Circuit Board

1. Remove the screw (D) (2×6)mm×1. (Fig. 2)
2. Remove the mechanism & circuit board in the direction of arrow ①, ②. (Fig. 3)

■ Remove the DC IN Jack Circuit Board

1. Remove the screw (E) (1.7×2.5)mm×1. (Fig. 4)

■ Remove the LED Circuit Board

1. Remove the screw (F) (2×6)mm×2. (Fig. 5)

■ Remove the Mechanism

1. Remove the screw (G) (1.7×3)mm×1. (Fig. 2)
2. Remove the solder (H) form flexible PC board. (Fig. 2)

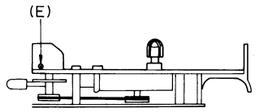


Fig. 4

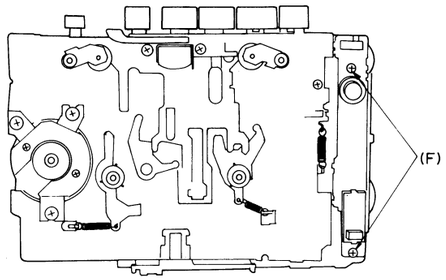


Fig. 5

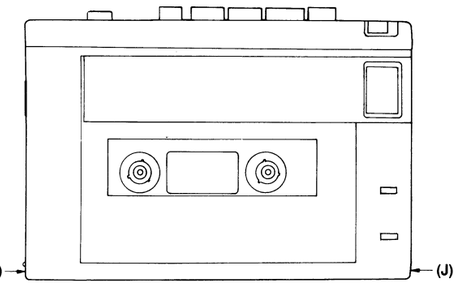


Fig. 6

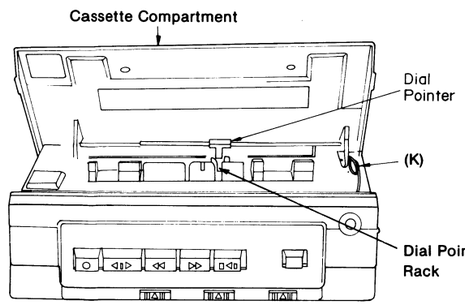


Fig. 7

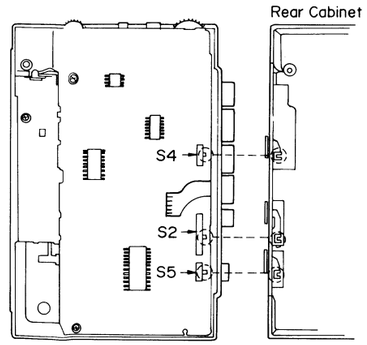


Fig. 10

■ Remove the Dial Chassis

1. Remove the screw (I) (2×6)mm×1. (Fig. 2)

■ Remove the Cassette Compartment

1. Remove the screw (J) (2×10)mm×2. (Fig. 6)
2. Remove the spring (K)×1. (Fig. 7)

Note: The dial Pointer falls off easily when the cassette compartment is removed, so be careful not to drop it or lose it.

■ Caution on attachment of Dial Chassis to Main Circuit Board

Line up the band knob and the band select switch (S1) boss and securely attach the dial chassis. (Fig. 8)

■ Caution on assembly of Front Cabinet

Line up the S.L.E. knob and the S.L.E. switch (S6) boss, and securely attach the front cabinet. (Fig. 9)

■ Caution on assembly of Rear Cabinet

Line up each switch with its respective switch boss, and securely attach the rear cabinet. (Fig. 10)

■ Caution on assembly of Cassette Compartment

Line up the dial pointer and the dial pointer rack, and securely attach the cassette compartment. (Fig. 7)

■ Dial Setting Point

1. Turn the drum gear fully in the direction of the arrow ③. (Fig. 11)
2. Set the pointer to mark. (Fig. 12)
3. Attach the dial chassis to the main circuit board.

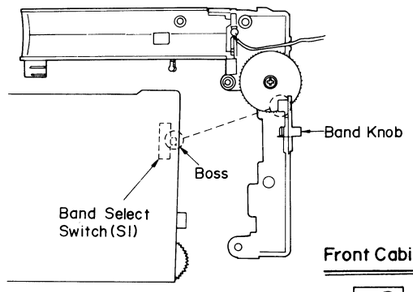


Fig. 8

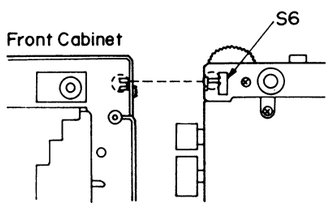


Fig. 9

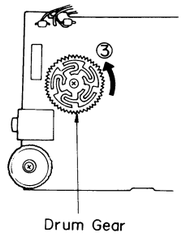


Fig. 11

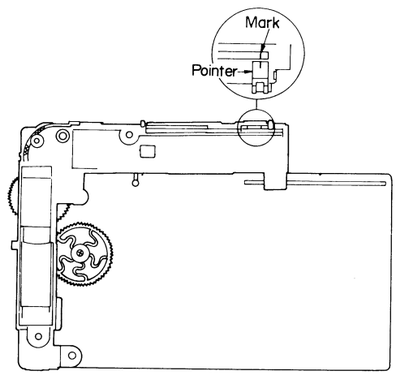


Fig. 12

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
1. Set volume control to maximum. 2. Set band switch to AM or FM ST. 3. Set selector switch to radio or Tape. 4. Set S.L.E switch to OFF.	5. Set power source voltage to 3V DC. 6. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
		AM-IF ALIGNMENT					
(1)	AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. at 400Hz	Point of non-interference. (on/about 600kHz)	Headphones jack	T2 (AM IFT)	Adjust for maximum output.
		AM-RF ALIGNMENT					
(2)	AM	〃	511kHz	Tuning capacitor fully closed.	〃	L4 (AM OSC Coil)	Adjust for maximum output.
(3)	AM	〃	1,670kHz	Tuning capacitor fully open.	〃	CT4 (AM OSC Trimmer)	〃
(4)	AM	〃	550kHz	Tune to signal.	〃	(*1) L3 (AM ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil bobbin along ferrite core.
(5)	AM	〃	1,500kHz	〃	〃	CT3 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).

(*1) Cement antenna bobbin with wax after completing alignment.

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
		FM-IF ALIGNMENT					
(1)	FM	High side thru. 0.001μF to test point ▼3. Negative side to test point ▼2.	10.7MHz (SWP.)	Point of non-interference. (on/about 90MHz)	Connect vert. amp. of scope to test point ▼6. Negative side to test point ▼7.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 2.)
(2)	FM	〃	〃	〃	〃	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 3.)
		FM-RF ALIGNMENT					
(3)	FM	Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼2.	86.2MHz	Variable capacitor fully closed.	Headphones jack	L1 (FM OSC Coil)	(*2) Adjust for maximum output.
(4)	FM		109.2MHz	Variable capacitor fully open.	〃	CT1 (FM OSC Trimmer)	〃
(5)	FM		90MHz	Tune to signal.	〃	L2 (FM ANT Coil)	〃
(6)	FM		106MHz	〃	〃	CT2 (FM ANT Trimmer)	(*2) Adjust for maximum output. Repeat steps (3)~(6).

(*2) Three output responses will be present; proper tuning is the center frequency.

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98MHz, 60dB (CW) Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼2.	▼8...(+) ▼7...(−)	VR1	19kHz	Adjust VR1, for 19kHz (±100Hz) reading on electronics counter.

▼ Be sure to fold at the (▼) mark so that mark is on the outside.

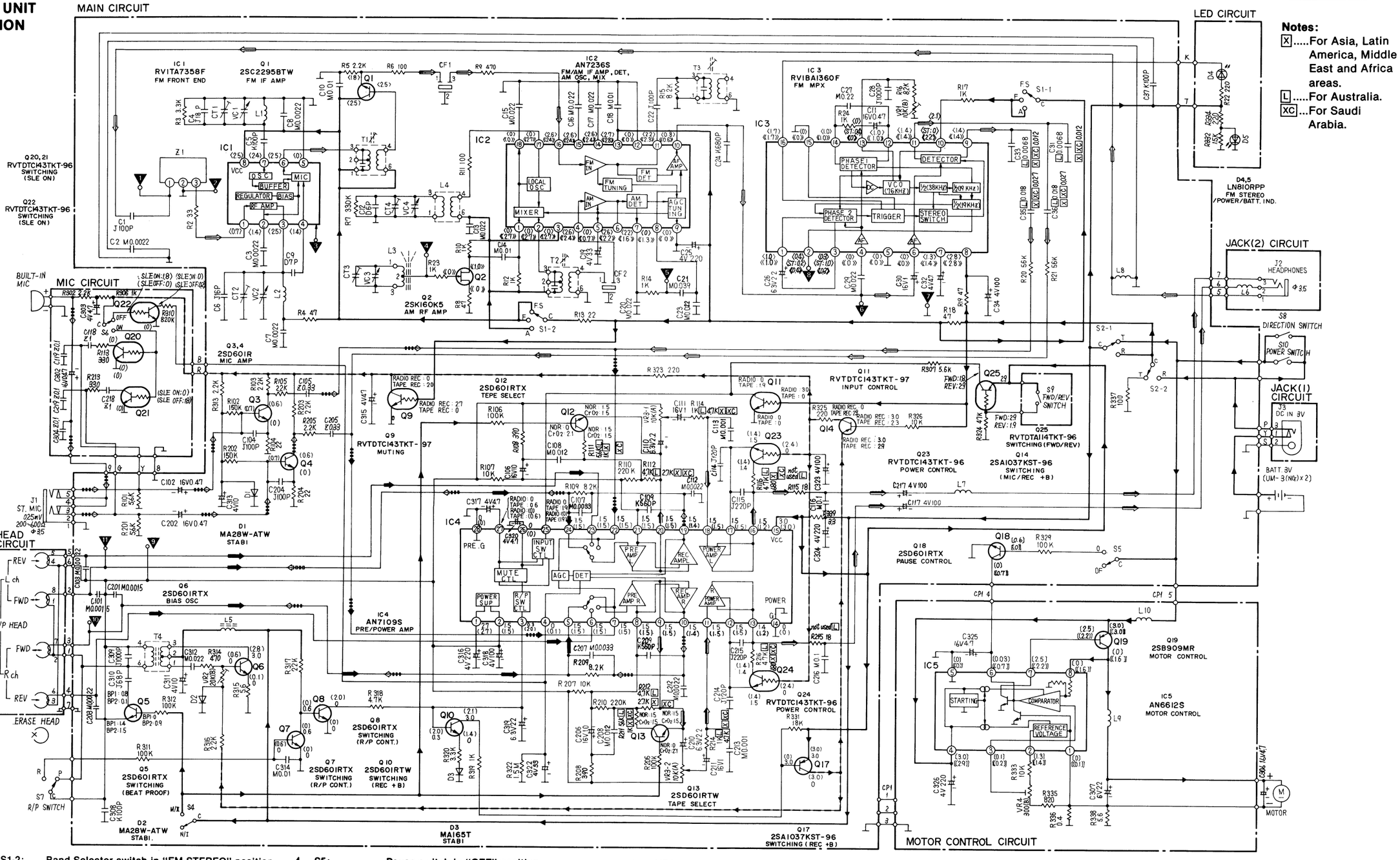
D

SCHEMATIC DIAGRAM

Main (Tape & Radio) Signal Line
Playback Signal Line
Recording Signal Line
Recording & Radio (FM) Signal Line
Radio (FM) Signal Line
+B Line
+B (Recording) Line

■ MAIN UNIT SECTION

MAIN CIRCUIT



Notes:

- X.....For Asia, Latin America, Middle East and Africa areas.
- L.....For Australia.
- XC...For Saudi Arabia.

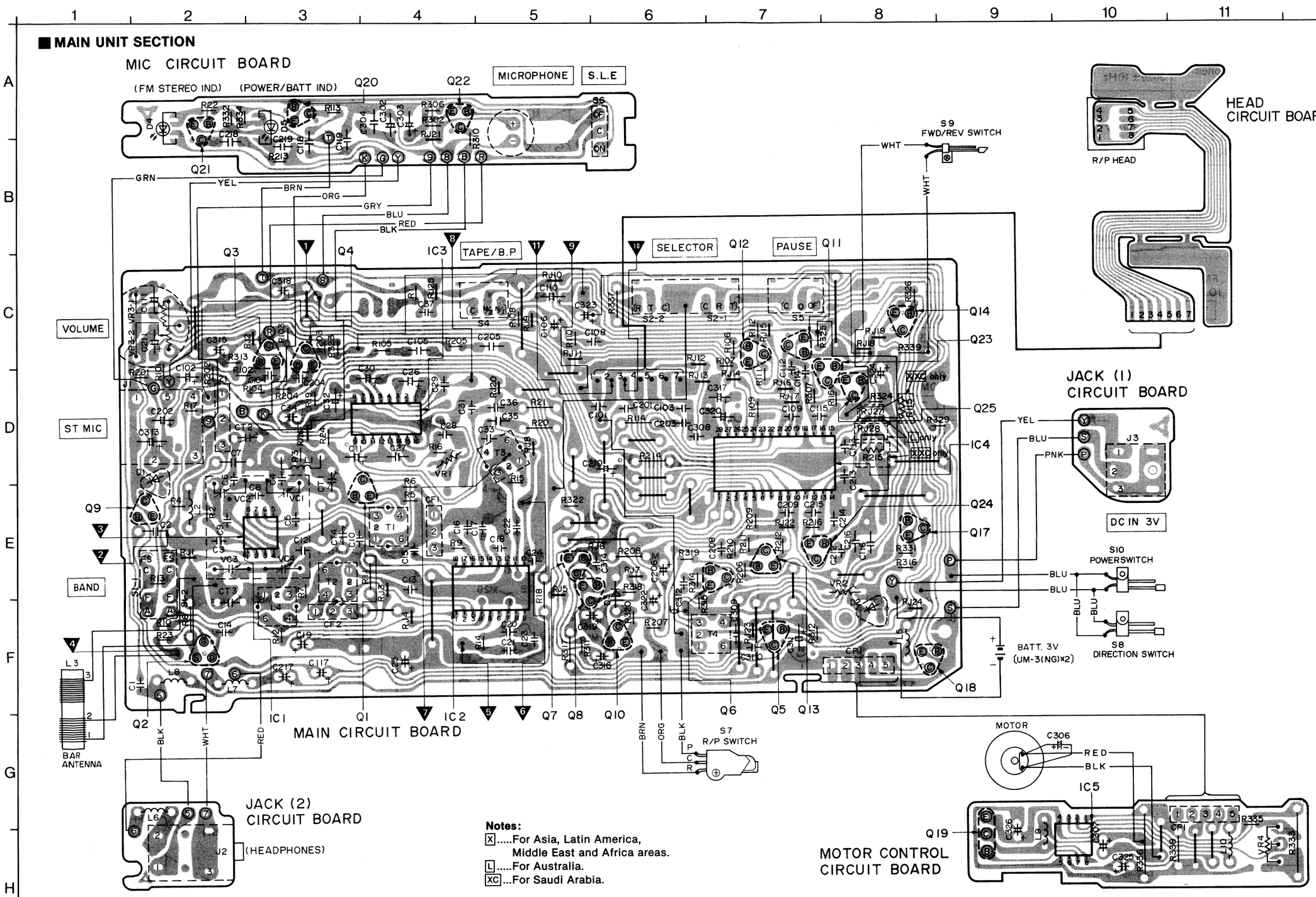
Notes:

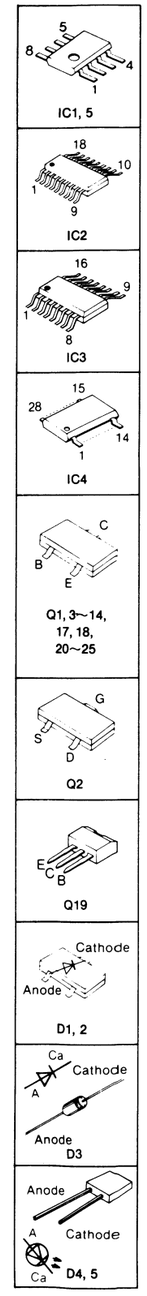
1. S1-1, S1-2: Band Selector switch in "FM STEREO" position. (F.S...FM STEREO, F...FM MONO, A...AM)
2. S2-1, S2-2: Function Selector switch in "TAPE" position. (T...TAPE, R...RADIO)
3. S4: TAPE/B.P switch in "NORMAL/I" position. (N/I...NORMAL/I, M/II...METAL/CrO_2/II)
4. S5: Pause switch in "OFF" position. (O...ON, OF...OFF)
5. S6: SLE switch in "OFF" position.
6. S7: Playback/Record switch in "PLAY" position. (P...PLAY, R...REC)
7. S8 Direction switch in "OFF" position.
8. S9 FWD/REV switch in "FWD" position.
9. S10 Power switch in "OFF" position.
10. VR1: FM VCO adjustment VR.
11. VR2: Bias current adjustment VR.
12. VR3-1, VR3-2: Volume control VR.
13. VR4: Tape speed adjustment VR.
14. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    No mark...Playback position, ( )...Record position, 〈 〉...Radio (FM) position, 《 》...Radio (AM) position, [ ]...Pause "ON" position, [[ ]]...Pause "OFF" position
15. Battery current: No signal..... 33.5mA
    Maximum Output
    Radio 47mA
    Tape (PLAY)..... 210mA
    Tape (REC)..... 260mA
16. The supply parts number is described alone in the replacement parts list.

- **This schematic diagram may be modified at any time with the development of new technology.**

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

■ MAIN UNIT SECTION





Notes:

[X].....For Asia, Latin America, Middle East and Africa areas.
[L].....For Australia.
[XC]...For Saudi Arabia.

NOTES:

BLK .....Black	ORG .....Orange
BLU .....Blue	PNK.....Pink
BRN.....Brown	RED.....Red
GRY.....Gray	SLD .....Shield Wire
GRN .....Green	VLT.....Violet
L. BLU ....Light Blue	WHT.....White
NIL.....No Color Mark	YEL.....Yellow

——=Resistor
——=Jumper Wire

■ TAPE ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, −20dB)	Headphones jack	Maximum output.	Azimuth screw	Playback mode Tape/B.P. switch → NOR/I (Refer to Fig. 4)
Tape speed	QZZCWAT (3kHz)	Headphones jack	3020±10Hz	VR4	Playback mode
Bias Current	——	⑯...(+) ⑨...(−) } R-CH ⑰...(+) ⑨...(−) } L-CH (Refer to Fig. 5.)	3.9mV	VR2	Record mode Tape/B.B. switch → CrO_2/II Measure the voltage of the Left and Right channels of the R/P Head, and adjust the lower of the two to 3.9mV with VR2.

ALIGNMENT POINT

* Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

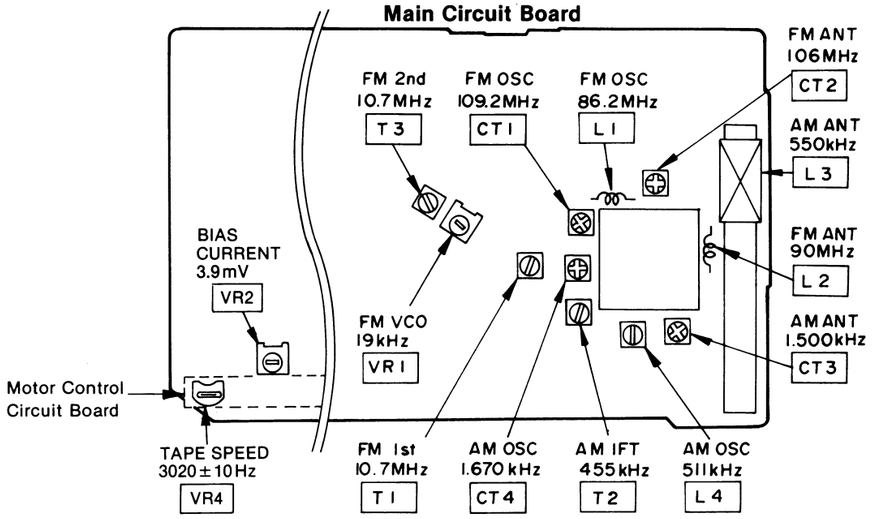


Fig. 1

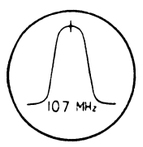


Fig. 2

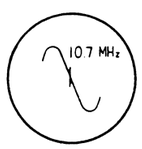


Fig. 3

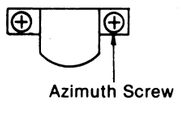


Fig. 4

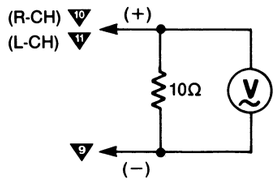


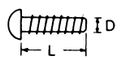
Fig. 5

Screw Dimensions Quick Reference

- **Dimensions**

XSN 3 + 10 = Pan head machine screw, 3mm in diameter, 10mm long.

Type/Diameter/Length



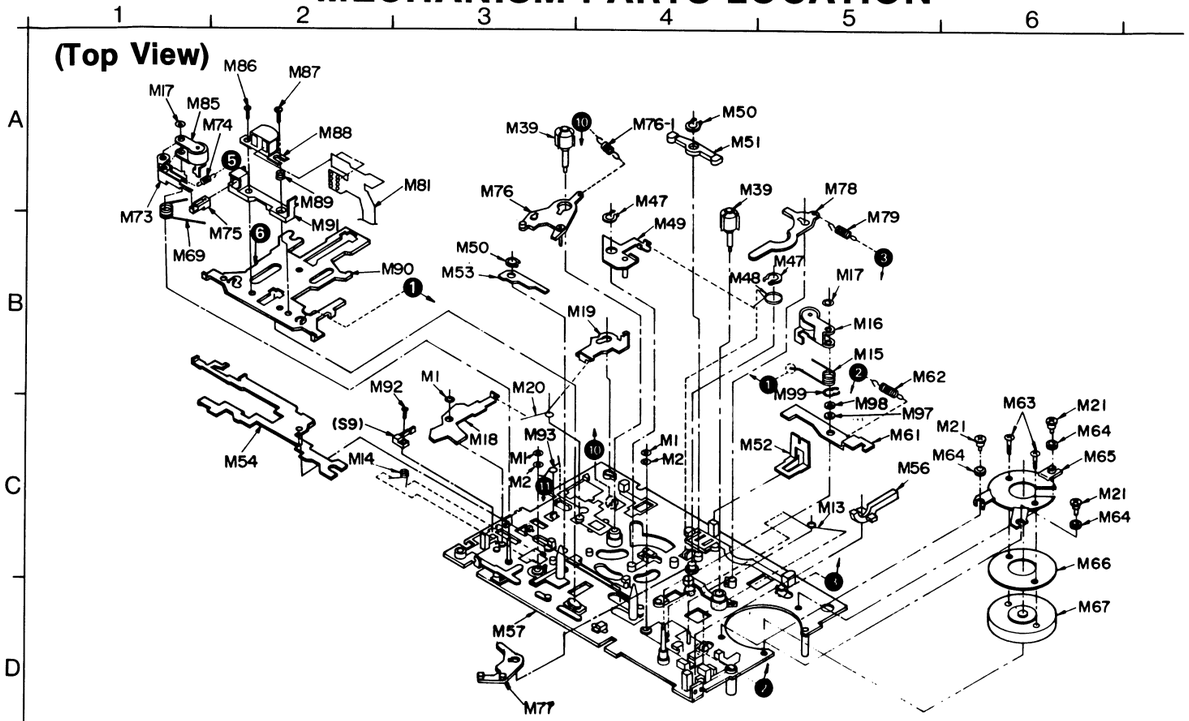
- **Types**

Precision machine screw	Machine screw	Tapping/Tap-tight machine screw
XQC Flat head	XSB Binding head	XTB Binding head
XQG Oval fillister head	XSC Oval countersunk head	XTC Oval countersunk head
XQH Flat fillister head	XSH Flat fillister head	XTN Pan head
XQS Flat head	XSN Pan head	XTS Flat head
	XSS Flat head	

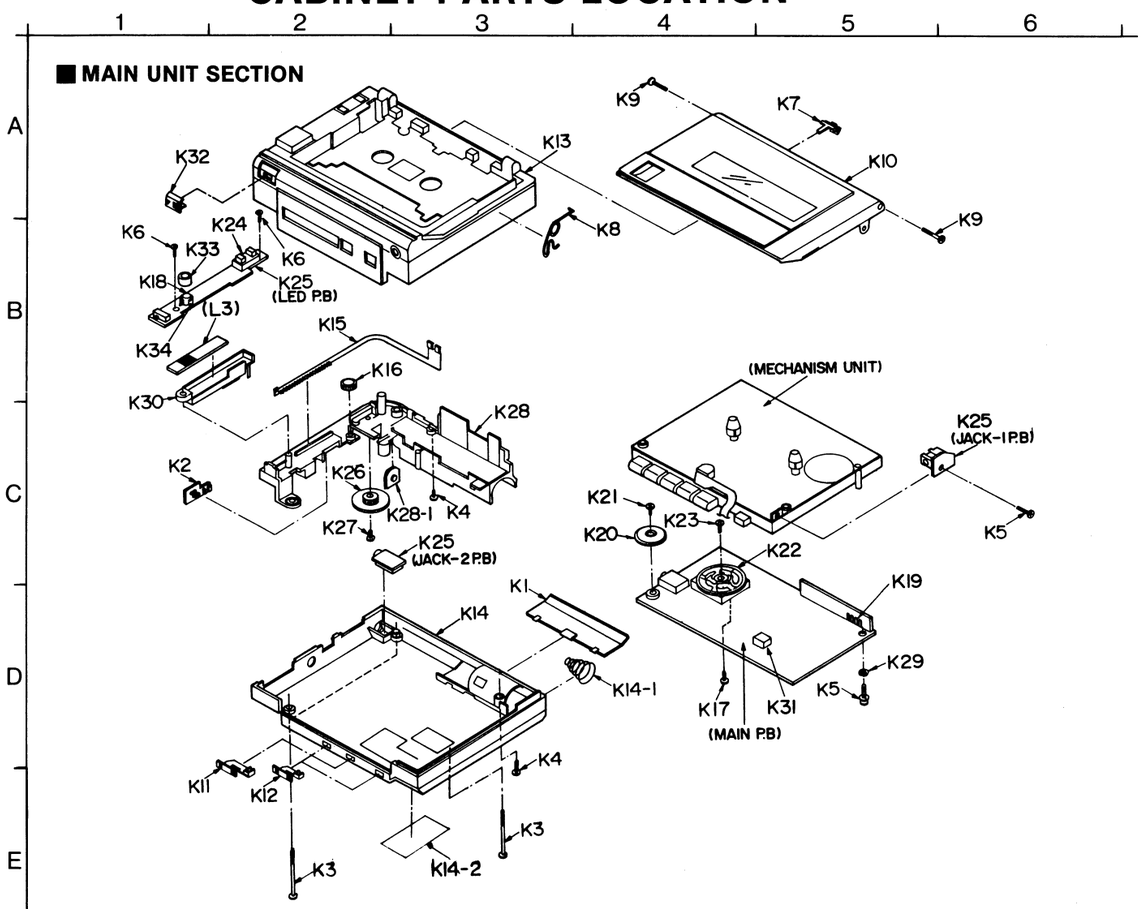
Specifications

Playback torque	22~45g•cm
Fast Forward torque	50~90g•cm
Rewind torque	50~90g•cm
Wow and flutter	Less than 0.35% (WRMS)

MECHANISM PARTS LOCATION



CABINET PARTS LOCATION



DISASSEMBLY INSTRUCTIONS AND CABINET PARTS LOCATION

■ SPEAKER SECTION

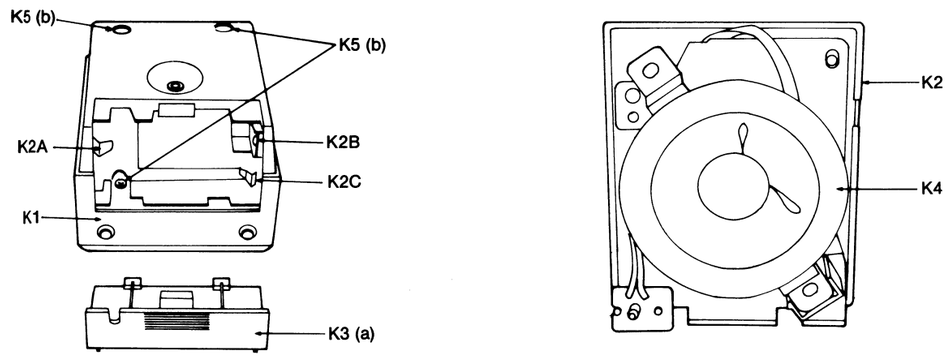


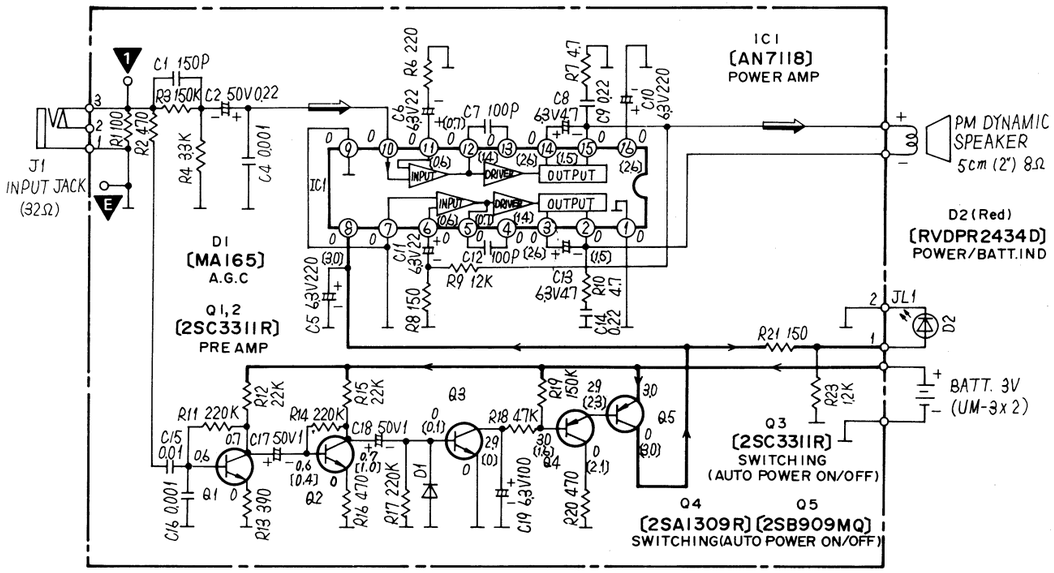
Fig. 1

Ref. No.	Shown in Fig. —.	To remove —.	Remove —.
1	1	Front Cabinet	Remove the battery cover .....(a)×1
2			Screw (2.6×18) .....(b)×3

SCHEMATIC DIAGRAM

Note:
This circuit controls the IC power circuit (IC1) by switching Q5. Therefore, to check the voltage, first apply a low-frequency signal (1kHz, 20mV) across test points ▼-▼ to turn on the circuit.

■ SPEAKER SECTION

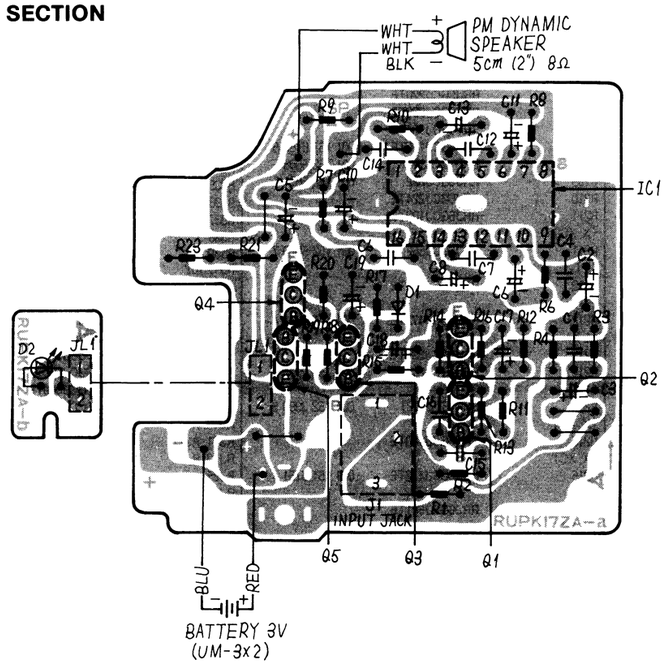


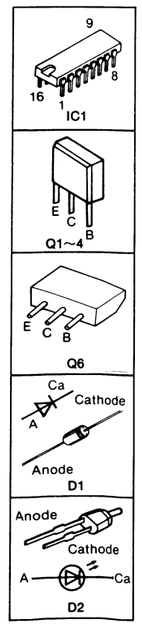
Note:

1. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
   No mark... No signal, [ ]... Use signal
   ⟹ Tape/Radio Signal Line, ⟶ B (+) Line

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

■ SPEAKER SECTION





REPLACEMENT PARTS LIST

■ RESISTORS & CAPACITORS

Numbering System of Resistor

Example:

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω)

ERJ	6G	C	J	2R2
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage	Value (1000pF)	Tolerance	Peculiarity

ECEA	50	M	R47
Type	Voltage	Peculiarity	Value (0.47μF)

Resistor Type		Wattage	Tolerance
ERD:	Carbon Resistor	10 : 1/8W	F : ±1%
ERC:	Solid Resistor	25 : 1/4W	G : ±2%
ERF:	Incombustible Box-Shaped Wire-Wound Resistor	50 : 1/2W	J : ±5%
		18 : 1/8W	K : ±10%
		14 : 1/4W	M : ±20%
		12 : 1/2W	
ERG:	Metal Oxide-Film Resistor	1 : 1W	
		2 : 2W	
ERM:	Wire-Wound Resistor	3 : 3W	
		S1 : 1/2W	
ERO:	Superstable Metal Film Resistor	S2 : 1/4W	
		6G : 1/10W	
		8G : 1/8W	
ERX:	Metal-Film Resistor		
RRJ: ERJ:	Chip Resistor		

※ Capacity are in microtarads (μF) unless specified otherwise, P=Pico-farads.
※ Resistance are in ohms (Ω), unless specified otherwise, 1K=1,000Ω, 1M=1,000KΩ

Capacitor Type		Voltage				Tolerance
ECCD:	Ceramic Capacitor (Chitacon)	(ECCD, ECKD Type)				K : ±10%
ECKD:	Ceramic Capacitor (Chitabari)	1H : 50V DC	2H	: 500V DC		M : ±20%
ECFD:	Semiconductor Ceramic Capacitor	(ECFD Type)				Z : +80% −20%
ECE□:	Electrolytic Capacitor	C : 12V DC	D	: 25V DC		
ECS□:	Tantalum Fixed Electrolytic Capacitor	E : 50V DC				J : ±5%
ECQ□:	Polystyrenc Film Capacitor	(ECQ Type)				G : ±2%
ECQS:	Polystyrene Film Capacitor	05 : 50WV DC	1	: 100WV DC		F : ±1%
ECQS:	Polypropylene Film Capacitor	(ECE, ECS Type)				C : ±0.25pF
ECQV:	T.F Capacitor	0G : 4V	0J	: 6.3V		D : ±0.5pF
ECU□: RCU□:	Chip Capacitor	1A : 10V	1C	: 16V		F : ±1pF
ECBT:	Cylindrical Ceramic Capacitor	1E : 25V	1V	: 35V		
		1H : 50V	1J	: 63V		
		2A : 100V				

• MAIN UNIT SECTION

Ref. No.	Part No.	Part Code
RESISTORS		
R2	RRJ6GCJ330	001 152 5882 3
R3	RRJ6GCJ332TE	
R4	RRJ6GCJ470TE	
R5	RRJ6GCJ222TE	
R6	RRJ6GCJ101TE	
R7	RRJ6GCJ334TE	001 151 6699 1
R8	ERD16TJ470T	001 152 2933 1
R9	RRJ6GCJ471TE	
R10	RRJ6GCJ102TE	
R11	ERD16TJ101T	001 152 2738 2
R12	RRJ6GCJ102TE	
R13	RRJ6GCJ220TE	
R14	RRJ6GCJ102TE	
R15, R16	RRJ6GCJ822	001 152 5871 6
R17	RRJ6GCJ102TE	
R18	ERD16TJ470T	001 152 2933 1
R19	RRJ6GCJ470TE	
R20, R21	ERD16TJ563T	001 152 6609 4
R22	RRJ6GCJ221TE	001 151 6507 4
R23, R24	RRJ6GCJ102TE	
R101	RRJ6GCJ562	001 152 5870 7
R102	RRJ6GCJ154TE	
R103	RRJ6GCJ222TE	
R104	RRJ6GCJ220TE	
R105	RRJ6GCJ222TE	
R106	RRJ6GCJ104TE	
R107	RRJ6GCJ103TE	001 151 6750 5
R108	RRJ6GCJ391TE	001 151 6700 5
R109	RRJ6GCJ822	001 152 5871 6
R110	RRJ6GCJ224TE	
R111 (X, XC)	RRJ6GCJ102TE	
R111 (L)	RRJ6GCJ562	001 152 5870 7
R112 (X, XC)	RRJ6GCJ272TE	
R112 (L)	RRJ6GCJ472TE	001 151 6751 4
R113	RRJ6GCJ331TE	
R114 (L)	ERD16TJ102	001 152 2919 9
R114	ERD16TJ472T	001 152 3990 8
(X, XC)		
R115	RRJ6GCJ180TE	
(X, XC)		
R116	RRJ6GCJ472TE	001 151 6751 4
(L)		
R116	RRJ6GCJ681TE	
(X, XC)		
R201	RRJ6GCJ562	001 152 5870 7
R202	RRJ6GCJ154TE	
R203	RRJ6GCJ222TE	
R204	RRJ6GCJ220TE	
R205	RRJ6GCJ222TE	
R206	RRJ6GCJ104TE	
R207	RRJ6GCJ103TE	001 151 6750 5
R208	ERD16TJ391T	001 152 6608 5
R209	RRJ6GCJ822	001 152 5871 6
R210	RRJ6GCJ224TE	
R211 (X, XC)	RRJ6GCJ102TE	
R211 (L)	RRJ6GCJ562	001 152 5870 7
R212 (X, XC)	RRJ6GCJ272TE	
R212 (L)	RRJ6GCJ472TE	001 151 6751 4
R213	RRJ6GCJ331TE	
R214 (L)	ERD16TJ102	001 152 2919 9
R214 (X, XC)	ERD16TJ472T	001 152 3990 8
R215 (X, XC)	RRJ6GCJ180TE	
R216 (L)	RRJ6GCJ472TE	001 151 6751 4
R216 (X, XC)	RRJ6GCJ681TE	
R302	RRJ6GCJ222TE	
R306	RRJ6GCJ102TE	
R307	RRJ6GCJ562	001 152 5870 7
R310	RRJ6GCJ824TE	
R311, R312	RRJ6GCJ104TE	
R313	RRJ6GCJ222TE	
R314	RRJ6GCJ471TE	
R315	RRJ6GCJ5R6TE	001 151 6757 8
R316	RRJ6GCJ222TE	
R317	ERD16TJ223T	001 152 3977 5
R318	RRJ6GCJ472TE	001 151 6751 4
R319	RRJ6GCJ102TE	
R320	RRJ6GCJ332TE	
R322	RRJ6GCJ155TE	001 151 6756 9
R323	RRJ6GCJ221TE	001 151 6507 4
R324	RRJ6GCJ473TE	001 151 6450 4
R325	RRJ6GCJ221TE	001 151 6507 4
R326	RRJ6GCJ103TE	001 151 6750 5
R329	RRJ6GCJ104TE	
R331	RRJ6GCJ183TE	001 151 6506 5
R332	RRJ6GCJ152	001 152 5878 9
R333	ERSB24J103T	001 151 7054 8
R334	RRJ6GCJ221TE	001 151 6507 4
R335	RRJ6GCJ821TE	001 151 6701 4
R336	ERSB29JR40T	001 151 7055 7
R337	ERD16TJ101T	001 152 2738 2
R338	ERD16TJ5R6T	001 152 6808 9
R339	ERD16TJ3R3T	
RJ1, RJ2	RRJ6GCJ000TE	
RJ3, RJ4	RRJ6GCJ000TE	
RJ5, RJ6	RRJ6GCJ000TE	
RJ7, RJ8	RRJ6GCJ000TE	
RJ9, RJ10	RRJ6GCJ000TE	
RJ11, RJ12	RRJ6GCJ000TE	
RJ13, RJ14	RRJ6GCJ000TE	
RJ15, RJ16	RRJ6GCJ000TE	
RJ17, RJ18	RRJ6GCJ000TE	
RJ19, RJ20	RRJ6GCJ000TE	
RJ21, RJ22	RRJ6GCJ000TE	
RJ23, RJ24	RRJ6GCJ000TE	
RJ25	RRJ6GCJ000TE	
RJ26	RRD18XJ000E	
RJ27, RJ28 (L)	RRJ6GCJ000TE	
CAPACITORS		
C1	RCUV1H101K	
C2	RCBS1C222MX	001 103 8858 6
C3	RCUV1H222MD	
C4	RCUV1H180KC	
C5	RCUV1H101K	
C6	RCUV1H160J	001 103 8964 5
C7	RCBS1C222MX	001 103 8858 6
C8	RCUV1H222MD	
C9	RCUV1H070D	001 103 9152 9
C10	RCUV1E103MD	
C11	ECSE1CT474	001 123 0640 2
C12	RCUV1H060D	001 103 8962 7
C13	RCUV1E223MD	
C14	RCUV1E103MD	
C15, C16	RCUV1E223MD	
C17	RCUV1E223MD	
C18	RCUV1E103MD	
C19	ECEA0GKS330L	001 120 5908 8
C20	RCUV1E223MD	
C21	RCUV1E333KB	001 103 9151 0
C22	RCUV1H101K	
C23	RCUV1E223MD	
C24	RCUV1H681KB	
C25	ECEA0GKS221L	001 120 5907 9
C26	ECSE0JT225SG	001 123 0802 2
C27	ECUV1C224MR	001 103 9141 2
C28	ECUV1H102KC	001 103 6755 0
C29	RCUV1E223MD	
C30	ECSE1CT105SL	001 123 0812 0
C31 (L)	RCUV1H682MD	
C31 (X, XC)	RCUV1E123KB	001 103 8961 8
C32	ECSE0GT475	001 123 0636 8
C33 (L)	RCUV1H682MD	
C33 (X, XC)	RCUV1E123KB	001 103 8961 8
C34	ECEA0GKS101L	001 120 5906 0
C35 (L)	RCUV1E183MD	001 103 8212 8
C35	RCUV1E273MD	001 103 9197 6
(X, XC)		
C36	RCUV1E183MD	001 103 8212 8
(L)		
C36	RCUV1E273MD	001 103 9197 6
(X, XC)		
C37	RCUV1H101K	
C101	RCUV1H152KB	001 103 8691 1
C102	ECSE1CY474L	001 123 0820 0
C103	RCUV1H222MD	
C104	RCUV1H101K	
C105	ECUV1C334ZF	001 103 8959 2
C106	ECEA1CKS100	001 120 3874 9
C107	RCUV1H332MD	
C108	RCUV1E123KB	001 103 8961 8
C109	RCUV1H561KB	
C110	ECSE0JT225SG	001 123 0802 2
C111	ECSE1CT105SL	001 123 0812 0
C112	RCUV1H222MD	
C113	RCUV1H102MD	
C114	RCUV1H121J	001 103 8963 6
C115	RCUV1H221K	
C116	ECUV1E104MD	
C117	ECEA0GKS101L	001 120 5906 0
C118	ECUV1C105ZF	001 103 7118 9
C119	ECUV1E104ZF	001 103 8758 9
C201	RCUV1H152KB	001 103 8691 1
C202	ECSE1CY474L	001 123 0820 0
C203	RCUV1H222MD	
C204	RCUV1H101K	
C205	ECUV1C334ZF	001 103 8959 2
C206	ECEA1CKS100	001 120 3874 9
C207	RCUV1H332MD	
C208	RCUV1E123KB	001 103 8961 8
C209	RCUV1H561KB	
C210	ECSE0JT225SG	001 123 0802 2
C211	ECSE1CT105SL	001 123 0812 0
C212	RCUV1H222MD	
C213	RCUV1H102MD	
C214	RCUV1H121J	001 103 8963 6
C215	RCUV1H221K	
C216	ECUV1E104MD	
C217	ECEA0GKS101L	001 120 5906 0
C218	ECUV1C105ZF	001 103 7118 9
C219	ECUV1E104ZF	001 103 8758 9
C302	ECSE1CY474R	
C303	ECSE0GT475	001 123 0636 8
C304	ECUV1E104ZF	001 103 8758 9
C306	ECEA1CKK4R7C	001 120 6087 6
C307	ECEA0JKS220	001 120 2530 4
C308	RCUV1H101K	
C309	ECUV1H102KC	001 103 6755 0
C310	RCUV1H680H	001 103 8965 4
C311	ECSE0GT106	001 123 0567 4
C312	RCUV1E223MD	
C313	ECSE0GT106	001 123 0567 4
C314	RCUV1E103MD	
C315	ECEA0GKS470L	001 120 5909 7
C316	ECEA0GKS221L	001 120 5907 9
C317	ECSE0GT475	001 123 0636 8
C318	ECEA0GKS101L	001 120 5906 0
C319	ECEA0JKS220	001 120 2530 4
C320	ECSE0GT475	001 123 0636 8
C322	ECEA0GKS330L	001 120 5908 8
C323	ECEA0GKS101L	001 120 5906 0
C324	ECEA0GKS221L	001 120 5907 9
C325	ECEA1CKS4R7	001 120 5583 9
C326	ECEA0GKS221L	001 120 5907 9

• SPEAKER SECTION

Ref. No.	Part No.	Part Code
RESISTORS		
R1	ERD16TJ101	001 152 2738 2
R2	ERD16TJ471	001 152 3989 1
R3	ERD16TJ154	001 152 3972 0
R4	ERD16TJ332	001 152 2929 7
R6	ERD16TJ221	001 152 2927 9
R7	ERD16TJ4R7	001 152 2745 3
R8	ERD16TJ151	001 152 3970 2
R9	ERD16TJ123	001 152 2923 3
R10	ERD16TJ4R7	001 152 2745 3
R11	ERD16TJ224	001 152 3978 4
R12	ERD16TJ223	001 152 3977 5
R13	ERD16TJ391	001 152 3987 3
R14	ERD16TJ224	001 152 3978 4
R15	ERD16TJ223	001 152 3977 5
R16	ERD16TJ471	001 152 3989 1
R17	ERD16TJ224	001 152 3978 4
R18	ERD16TJ473	001 152 3991 7
R19	ERD16TJ154	001 152 3972 0
R20	ERD16TJ471	001 152 3989 1
R21	ERD16TJ151	001 152 3970 2
R23	ERD16TJ122	001 152 2922 4
CAPACITORS		
C2	ECEA1HUR22	001 120 3247 0
C4	RCBS1H102KB	001 103 5571 0
C5	ECEA0JU221	001 120 2925 9
C6	ECEA0JU220	001 120 3856 1
C7	RCBS1H101KB	001 103 8003 5
C8	ECEA0JU470	001 120 3125 9
C9	ECQV05224JZ	001 106 1558 8
C10	ECEA0JU221	001 120 2925 9
C11	ECEA0JU220	001 120 3856 1
C12	RCBS1H101KB	001 103 8003 5
C13	ECEA0JU470	001 120 3125 9
C14	ECQV05224JZ	001 106 1558 8
C15	RCBS1C103NY	001 103 5545 2
C16	RCBS1H102KB	001 103 5571 0
C17, C18	ECEA1HU010	001 120 2960 6
C19	ECEA0JU101	001 120 2829 8

■ ELECTRICAL PARTS

• SPEAKER SECTION

Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCUITS			
IC1	AN7118	001 060 8851 9	INTEGRATED CIRCUIT
TRANSISTORS			
Q1, Q2	2SC3311R	001 030 4313 4	TRANSISTOR
Q3	2SC3311R	001 030 4313 4	TRANSISTOR
Q4	2SA1309R	001 030 4059 9	TRANSISTOR
Q5	2SB909MQ	001 030 5054 0	TRANSISTOR
DIODES			
D1	MA165	001 032 0494 0	DIODE
D2	RVDPR2434D	001 032 3539 2	DIODE
OTHERS			
J1	RJJD3M2Z	003 400 6035 3	JACK

• MAIN UNIT SECTION

Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCUITS			
IC1	RVITA7358F	001 060 7867 5	IC
IC2	AN7236S	001 060 8857 3	I.C.
IC3	RVIBA1360F	001 060 4507 8	INTEGRATED CIRCUIT
IC4	AN7109S	001 061 4501 9	INTEGRATED CIRCUIT
IC5	AN6612S	001 060 3744 1	IC
TRANSISTORS			
Q1	2SC2295BTW	001 030 6917 4	TRANSISTOR
Q2	2SK160K5T2	001 030 7276 0	TRANSISTOR
Q3, Q4	2SD601RTW	001 030 6923 6	TRANSISTOR
Q5, Q6	2SD601RTX	001 030 7094 4	TRANSISTOR
Q7, Q8	2SD601RTX	001 030 7094 4	TRANSISTOR
Q9	RVTDTC143TKT	001 030 7269 9	TRANSISTOR
Q10	2SD601RTW	001 030 6923 6	TRANSISTOR
Q11	RVTDTC143TKT	001 030 7269 9	TRANSISTOR
Q12	2SD601RTX	001 030 7094 4	TRANSISTOR
Q13	2SD601RTW	001 030 6923 6	TRANSISTOR
Q14, Q17	2SA1037KST96	001 030 7270 6	TRANSISTOR
Q18	2SD601RTX	001 030 7094 4	TRANSISTOR
Q19	2SB909MR	001 030 5363 0	TRANSISTOR
Q20, Q21	RVTDTC143TKT	001 030 7269 9	TRANSISTOR
Q22, Q23	RVTDTC143TKT	001 030 7269 9	TRANSISTOR
Q24	RVTDTC143TKT	001 030 7269 9	TRANSISTOR
Q25	RVTDTA114TKT	001 030 7243 9	TRANSISTOR
DIODES			
D1, D2	MA28WA	001 032 4930 5	DIODE
D3	MA165T	001 033 0021 4	DIODE, SI
D4, D5	LN810RPP	001 032 9809 5	DIODE, GAASP
VARIABLE RESISTORS			
VR1	EVNA6AA00B14	001 180 0396 4	SEMI VARIABLE RESISTOR
VR2	EVNA6A00B24	001 180 0398 2	SEMI VARIABLE RESISTOR
VR3	EVUBAAT50A14	001 180 2181 9	CARBON VARIABLE RESISTOR
VR4	EVNB6AA00B32	001 180 3140 4	SEMI FIXED RESISTOR
VARIABLE CAPACITORS			
CT1, CT2	ECRLA010A12	001 142 0605 8	TRIMMER CAOACITOR
CT3, CT4	ECRLA010A12	001 142 0605 8	TRIMMER CAOACITOR
VC1-4	RCV4LC3R2Q	001 141 0435 3	VARIABLE CAPACITOR
COILS AND TRANSFOMERS			
L1	RL04Y148	001 211 3722 8	COIL
L2	RL04Y78	001 211 0962 6	OSILLATOR COIL
L3	RLF2N19-M	001 214 1594 1	BAR ANTENNA
L4	RL02A3	001 210 9986 7	COIL
L5	RLQZP101K	001 211 2758 0	CHOKE COIL
L6, L7	RLQZP1R0M		COIL
L8	RLQZP1R0M		COIL
L9, L10	RLQZ5002	001 210 9953 6	CHOKE COIL
T1	RLI4A27	001 215 2478 5	I.F.TRANSFORMER
T2	RLI2A37	001 211 3109 3	I.F.TRANSFORMER
T3	RLI4A27	001 215 2478 5	I.F.TRANSFORMER
T4	RL09A4	001 210 8716 1	OSCILLATOR COIL
FILTERS			
CF1	QCRZ107MA5	001 241 0445 4	CERAMIC FILTER
CF2	RVFPFA455A	001 241 0645 8	CERAMIC FILTER
Z1	RXABPMB8	001 230 1488 0	COMPONENTS COMBINATION
SWITCHES			
S1	RSS3B32Z	003 431 3139 5	SLIDE SWITCH
S2	RSS2B38YA-A	003 431 3799 5	SLIDE SWITCH
S4	RSS2A38YA	003 431 3821 4	SLIDE SWITCH
S5	RSS2A38YA	003 431 3821 4	SLIDE SWITCH
S6	RSS2A36Y	003 431 2627 8	SLIDE SWITCH
S7	RSH2A22Z	003 435 4558 6	PUSH SWITCH
S8	RSH1A53Z	003 435 4529 1	LEAF SWITCH
S9	RSH1A79ZA-B	003 435 6327 1	LEAF SWITCH
S10	RSH1A53Z	003 435 4529 1	LEAF SWITCH
OTHERS			
J1	RJJD5S2ZA	003 400 7494 6	JACK
J2	RJJD3S5Z	003 400 7041 1	JACK
J3	RJJB2Z	003 400 5270 8	JACK

■ CABINET PARTS

• MAIN UNIT SECTION

Ref. No.	Part No.	Part Code	Description
CABINET AND CHASSIS			
K1	RKKK9Z	015 820 8460 7	BATTERY COVER
K2	RBDK29ZA	015 700 4569 0	KNOB
K3	XTN2+25JZ	005 501 4707 6	SCREW
K4	XTN2+5J	005 501 1128 1	SCREW
K5	XQN17+C3	005 500 3443 0	SCREW
K6	XTN2+6J	005 501 1524 3	SCREW
K7	RDPK517ZA-0	015 710 0751 4	POINTER
K8	RUWK72ZA	015 727 0971 3	SPRING
K9	QHQ1362K	005 500 4277 2	SCREW
K10	RYPXSR27X	015 820 8782 2	CASSETTE LID ASS'Y
K11	RBDK27ZA-0	015 700 4567 2	KNOB
K12	RBDK28ZA-0	015 700 4568 1	KNOB
K13	RYMXSR27X	015 800 6637 0	FRONT CABINET ASS'Y
K14 (X, L)	RYFXSR27X	015 802 3125 1	REAR CABINET ASS'Y
K14 (XC)	RYFXSR27XC	015 802 3133 1	REAR CABINET ASS'Y
K14-1	RJCK70002ZA	003 413 1630 9	BATTERY TERMINAL
K14-2 (X, L)	RGTK62ZA-0	015 861 2140 5	NAME PLATE
K14-2	RGTK68ZA-0	015 861 2142 3	NAME PLATE
(XC)			
K15	RDPK516ZA	015 710 0750 5	RACK
K16	RDGK5612ZA	015 745 1110 4	GEAR
K17	XTW2+6S		SCREW
K18	WM60AY	001 274 0240 2	MICROPHONE
K19	RJSK5M1ZA	003 400 7656 6	SOCKET
K20	RBT237Z	015 700 3126 7	KNOB
K21	XQN17+C4	005 500 4608 3	SCREW
K22	RDGK5613ZA	015 745 1111 3	GEAR
K23	XQN17+C3	005 500 3443 0	SCREW
K24	RMPK10ZA	015 652 1435 2	HOLDER
K25	RUPK86ZA-1	003 483 3097 8	P.C.B
K26	RBTK11ZA	015 700 4570 7	KNOB
K27	XTW2+6S		SCREW
K28	RZAXSR25M	015 630 2461 8	CHASSIS ASS'Y
K28-1	RJCK30001YA	003 413 1628 3	BATTERY TERMINAL
K29	RHEK61ZA	005 513 4924 3	WASHER
K30	RMAK502ZA	015 632 6650 9	ANGLE
K31	RHGK612ZA	015 653 1175 8	RUBBER
K32	RBDK30ZA-0	015 700 4615 1	KNOB
K33	RHGK714ZA	015 653 1174 9	RUBBER
K34	RHRK523ZA	015 652 1472 7	HOLDER

• SPEAKER SECTION

Ref. No.	Part No.	Part Code	Description
CABINET AND CHASSIS			
K1	2KMKASP8ZA	015 800 6638 9	FRONT CABINET ASS'Y
K2	RYF2XS38M	015 802 2339 3	REAR CABINET
K2A	QJB0134	003 413 0963 5	TERMINAL
K2B	QJB0109	003 413 0959 1	TERMINAL
K2C	QJB0147	003 413 0965 3	TERMINAL
K3	RKKK2Z	015 820 4304 4	BATTERY COVER
K4	EAS5P17SC	001 260 3308 3	SPEAKER
K5	XTN26+18GZ		SCREW

D

■ MECHANISM PARTS

Ref. No.	Part No.	Part Code	Description
CASSETTE DECK			
M1	QBW2140		WASHER
M2	QBW2138	005 513 3145 6	WASHER
M3	QBK92030	005 513 3065 5	WASHER
M4	RNGK21ZB	015 745 1068 9	GEAR
M5	RNGK15ZA	015 745 1045 6	GEAR
M6	3NGAKFW19ZB	015 745 1070 5	GEAR ASS'Y
M7	RNGK20ZA	015 745 1046 5	GEAR
M8	RNWK2011ZA		WASHER
M9	1DWAKSR27ZA	015 756 0463 5	FLYWHEEL ASS'Y
M10	1DWAKSR25ZA	015 756 0455 5	FLYWHEEL ASS'Y
M11	RDVK23ZA	015 754 0337 0	BELT
M12	QDP1948-2	015 741 3486 7	PULLEY
M13	RUWK40ZA	015 726 2947 0	SPRING
M14	RUWK41ZA	015 726 2948 9	SPRING
M15	RUWK38ZA	015 726 2945 2	SPRING
M16	11NLAKFW19ZA	015 718 4484 8	PINCH ROLLER ASS'Y
M17	QBK92008	005 513 0693 5	WASHER
M18	RNLK50ZB	015 718 4666 4	LEVER
M19	RNLK70ZA	015 718 4613 7	LEVER
M20	RUWK76ZA	015 727 0977 7	SPRING
M21	QHQ1304	005 500 0447 8	SCREW
M22	XTNV17+6Z	005 501 2133 0	SCREW
M23	XQN17+C6	005 500 4610 9	SCREW
M24	XUEV4VW		C RING
M25	RUWK62ZA	015 727 0979 5	SPRING
M26	RUWK56ZA	015 727 0961 5	SPRING
M27	RUWK55ZA	015 727 0962 4	SPRING
M28	XQS17+A4FN	005 500 4640 3	SCREW
M29	XQN17+C5	005 500 3093 2	SCREW
M30	7NRAKSR25ZA	015 712 2427 5	ROD ASS'Y
M31	6NRAKSR25ZA	015 712 2428 4	ROD ASS'Y
M32	5NRAKSR25ZA	015 712 2426 6	ROD ASS'Y
M33	1NRAKSR27ZA	015 712 2449 9	ROD
M33-1	RUDK20ZA	015 726 2933 6	SPRING
M34	3NRAKSR25ZA	015 712 2424 8	ROD ASS'Y
M34-1	RUDK32ZA	015 726 3028 6	COIL SPRING
M35	RNLK46ZA	015 718 4467 9	PLATE
M36	RNRK31ZB	015 712 2400 6	ROD
M37	RNRK30YA	015 712 2399 2	ROD
M38	6NLAKFW19ZB	015 718 4664 6	LEVER ASS'Y
M39	RDMK2ZA	015 765 0553 3	REEL TABLE
M40	RNGK14ZA	015 745 1044 7	GEAR
M41	RUQK27ZB	015 726 3024 0	SPRING
M42	RNWK2812ZA		WASHER
M43	RNGK29ZB	015 745 1129 3	GEAR
M44	RUWK34ZA	015 726 2941 6	SPRING
M45	RNLK57ZA	015 718 4473 1	LEVER
M46	1DRAKFW19ZB	015 741 3493 8	GEAR ASS'Y
M47	XUEV35VW		C RING
M48	RUWK46ZB	015 727 0956 2	SPRING
M49	2NLAKFW19ZA	015 718 4466 0	IDLER LEVER ASS'Y
M50	XUEV25VW	005 512 0283 4	C RING
M51	RNLK54ZA	015 718 4470 4	LEVER
M52	QBP2041	015 727 0927 7	SPRING
M53	RNLK67ZA	015 718 4481 1	LEVER
M54	3NRAKSR27ZA	015 712 2445 3	ROD ASS'Y
M55	RNGK23YA	015 745 1107 9	GEAR
M56	RNLK82ZA	015 718 4614 6	LEVER
M57	1UAAKSR27ZA	015 630 2502 6	CHASSIS ASS'Y
M58	RUEK6XA	015 632 6653 6	PRESSURE PLATE
M59	RUDK15ZA	015 726 2928 3	SPRING
M60	RUDK16ZA	015 726 2929 2	SPRING
M61	RNLK86ZA	015 718 4616 4	LEVER
M62	RUDK33ZA	015 726 3029 5	COIL SPRING
M63	XQN14+C2	005 500 4563 9	SCREW
M64	QBG1676	015 653 0426 2	MOTOR RUBBER
M65	RULK19ZA	015 632 6637 6	ANGLE
M66	RMCK28ZA	015 601 1103 4	SHIELD PLATE
M67	RFM112ZA	002 310 2501 3	DC MOTOR
M68	RNRK34ZB	015 712 2448 0	ROD
M69	RUWK47ZA	015 726 2952 3	SPRING
M70	XUEV5VW	005 512 0264 7	C RING
M71	RNLK58ZA	015 718 4474 0	LEVER
M72	RUDK38ZA	015 726 3045 5	COIL SPRING
M73	RNLK69ZA	015 718 4540 7	PLATE
M74	RUDK26ZA	015 726 2970 1	SPRING
M75	RJH2C19XZAG	001 270 1813 3	ERASE HEAD
M76	1NLAKFW19ZA	015 718 4482 0	IDLER LEVER ASS'Y
M76-1	RUDK17ZA	015 726 2930 9	SPRING
M77	RNLK52ZA	015 718 4469 7	LEVER
M78	RNLK55ZA	015 718 4471 3	LEVER
M79	RUDK12ZA	015 726 2925 6	SPRING
M80	2NGAKFW19ZC	015 765 0554 2	REEL TABLE ASS'Y
M81	RUPK91ZA	003 483 3098 7	F.W.C
M82	1NGAKFW19ZB	015 745 1128 4	GEAR ASS'Y
M85	12NLAKFW19ZA	015 718 4485 7	PINCH ROLLER ASS'Y
M86	XSN2+5	005 500 1291 6	SCREW
M87	XSB2D5	005 500 1291 6	SCREW
M88	RJH4C14YZ	001 270 1177 8	R/P HEAD
M89	RUQK29ZA	015 726 2937 2	SPRING
M90	RUAK26ZC	015 630 2412 7	PLATE, HEAD BASE
M91	RUEK4ZD	015 632 6666 1	SPACER
M92	XQN17+C4	005 500 4608 3	SCREW
M93	RUWK63ZA	015 727 0978 6	LEAF SPRING
M94	RNLK56ZB	015 718 4542 5	LEVER
M96	2NRAKSR27ZA	015 712 2446 2	ROD ASS'Y
M97	XWE4	005 513 1412 4	WASHER
M98	QBK92018	005 513 3056 6	WASHER
M99	XUEV3VW	005 512 0246 9	C RING

■ PACKINGS AND ACCESSORIES

Ref. No.	Part No.	Part Code	Description
PACKINGS			
P1 (X)	RPKK1083ZA	015 972 2047 3	GIFT BOX
P1 (L)	RPKK1084ZA	015 972 2048 2	GIFT BOX
P2	RPNK3005YA	015 977 3450 7	CUSHION
P3	RPEK104Z	015 977 3121 1	PAD
P4	XZB20X20A03H	015 979 0415 2	PACKING SHEET
P5	RPEK129ZA	015 977 3422 1	CUSHION
P6	QPSK1142	015 977 1622 3	CUSHION
P7	XZB14X20A03	015 978 0670 4	PROTECTION COVER

Ref. No.	Part No.	Part Code	Description
ACCESSORIES			
A1 (X, XC)	RP-HV115JR	015 819 0447 7	INSIDE PHONES
A1 (L)	RP9545X	015 819 0263 3	HEADPHONES
A1-1 (L)	RHS987ZA	015 977 3444 5	EAR PAD
A2	RKE447Z4	015 846 3020 5	BELT CRIPER
A3	RQXK4065ZA	015 983 5001 4	INSTRUCTION BOOK
A4	RJN47ZB	015 938 0021 5	TAPE
A5	RJP0F4Z	003 492 4710 5	SPEAKER CORD